

Special Thanks to Special People

Dean of the Steinhardt School of Culture, Education and Human Development - Mary Brabeck

Associate Dean for Planning and Communication - Lindsay Wright

Chair The Department of Teaching and Learning - Richard Magill

Project Director - Pamela Fraser-Abder

SOS/MSTEP Coordinator - Robert Wallace

SOS Facilitators

Cath Milne

Susan Kirch

Mary Leou

Carole Mulligan

Jason Blonstein

Manager - Christiana Belfon

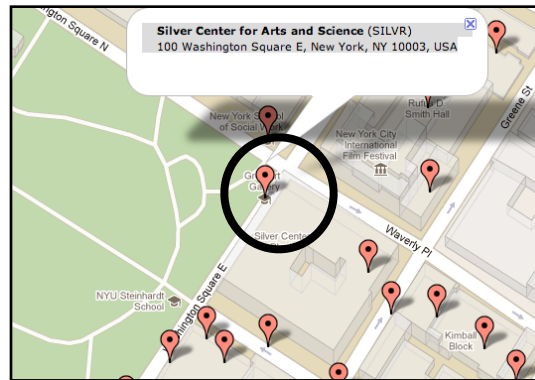
Lena Singh

Roberto Martinez

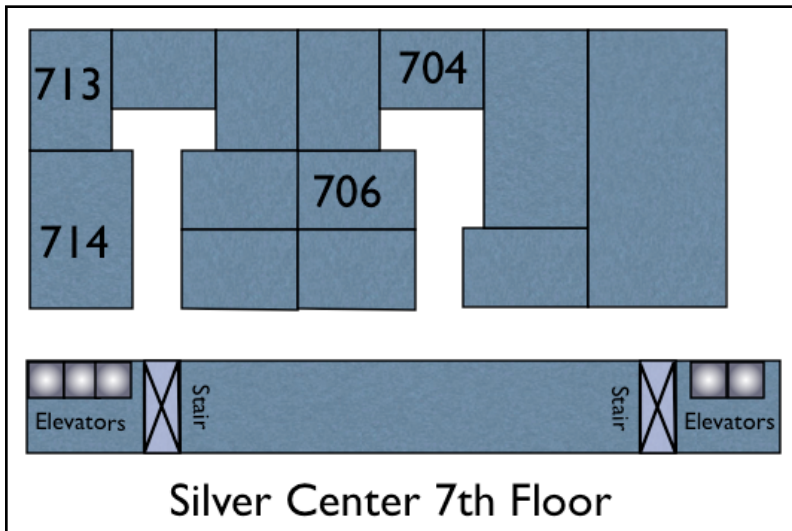
Video - Nina Leonhardt

Video Support - Lou Rosenberg

Tech Support - Kit To



NYU Silver Center Location
100 Washington Square East



The 12th Annual Sharing Our Success in Urban Science and Math Teaching

a Conference at New York University

Friday, April 29, 2011, 8:00AM - 4:30 PM

New York University Silver Center 7th Floor

This conference provides a forum for urban K-12 grade science and math teachers, selected K - 12 grade science students, school districts' personnel, and science and math university faculty to meet and share their successful strategies for increasing interest and participation in math and science.

When: April 29, 2011

Where: NYU Silver Center, 100 Washington Square East, 7th Floor

Time: Friday 8:00 AM - 4:30 PM

Go to the website for pre-registration information.

website: <http://bit.ly/NYUSOS2011>

Or email steinhardt.t&l.sos.rsvp@nyu.edu

**Pamela Fraser-Abder, Ph.D., Project Director,
Robert J. Wallace, Ph.D., Project Coordinator**

8:00 - 8:30 AM Room 713

Registration

8:40 - 9:10 AM Room 713

Geometry Through Architecture

Molly Picardi, Michelle Fiumefreddo, Elizabeth Diamant,
Caitlin Robbie - NYU

When thinking of the traditional geometry units in fifth grade classrooms, there is a strong focus on two-dimensional figures. The shapes the students work with never leave the worksheet page. These students are not experiencing geometry in the way that constructivist theorists advocate to promote deep understanding of the subject. This unit was developed with the strong influence of constructivist theories in order to give students multiple experiences with constructing, drawing, manipulating, and using shapes in order to solve problems and see how these shapes are used in the world around them.

9:20 - 9:50 AM Room 713

Fun with Fractions

Carole Mulligan - NYU, Kelly Ann Connolly, Francesca
Needham, Jasmine Ross, Gabriella Tutson

Engaging real life experiences with fractions that provide opportunities for students to build conceptual understandings. The unit addresses fractions as parts of a whole (area model), fractions as parts of a collection (set model), and fractions as length (number line).

9:50 - 10:20 AM Room 713

A Study of Asthma in Our Neighborhood

7th Graders in Sabah Ayoub and Anthony James'
Class - Science and Medicine

7th Grade Students studied the incidence of asthma in their neighborhood and have suggestions on how to improve things.

1:40 PM - 2:50 PM Room 706

Math and Manipulatives

Donna Davis McGraw-Hill School Education Group

This workshop looks at ways to reinforce math literacy in the classroom.

1:40 PM - 2:10 PM Room 713

The Backyard is Our Park: Utilizing the Brooklyn Bridge Park in Teaching Science and Math

Kathleen Nolan - St. Francis College
Kara Gilmour - Brooklyn Bridge Park

Middle and HS students are learning science and math by utilizing the Brooklyn Bridge Park in an afterschool/Saturday program.

2:20 PM - 2:50 PM Room 713

Literacy in the Science Classroom

Alicia Pilgrim - East Side Middle School
Caroline Furst - NYU Steinhardt

This is a unique way to integrate literacy into an Integrated Science, 7th Grade Classroom study of disease.

8:40 AM - 9:10 AM Room 704

Teaching Science at the Hackensack Academy for Second Success

Albert Piotrowski - Hackensack Academy for Second Success

Hackensack Academy for Second Success is a program designed to educate students who are not succeeding in school during the regular school day. Teaching science to students in this academy has many challenges. During my presentation I will go over many of the challenges that I face as a science teacher at Hackensack Academy.

9:20 AM - 9:50 AM Room 704

Future Women in Science (FWIS)

Filomena Califano - St. Francis College

The program seeks to enhance STEM goals by preparing students who are (1) interested in and strong in STEM disciplines, (2) aware of the importance of Mathematics and Science-related careers, and (3) and hold positive attitude/dispositions towards pursuing STEM disciplines and the related careers.

9:50 AM - 10:20 AM Room 704

Using Open-Ended Questions to Enhance Student's Quantitative Reasoning Skills

Maria Sole - The New School for Liberal Arts

The benefits and drawbacks of using open ended questioning techniques. What happens when students are given a set of numbers but are not provided with explicit directions?

9:20 AM - 10:20 AM Room 706

Linking Mathematical and Science Concepts to Improve Students' Learning of Probability

Wladina Antoine - Fairleigh Dickinson

The goal of the session is to show how mathematics can be integrated with science to teach probability to students in secondary schools.

3:00 PM - 3:45 PM Room 714

Technology in Education

Pamela Fraser-Abder - NYU Steinhardt

Graduate Student presentations on the effective uses of technology in educational settings.

3:50 PM - 4:30 PM Room 714

Breakthroughs in Science Presentation

Robert Wallace - NYU Steinhardt

Fuad Chowdhury, Chase Mock, Youngjee Kim - NYU Steinhardt

We will share some of the strategies that we have used to adapt the cutting-edge science seminars held as part of the Saturday Science Series (<http://bit.ly/ava4fl>) to the needs of the secondary school classroom.

1:40 PM - 2:10 PM Room 714

SciLProJ, an on-line resource for students of IB Biology, Physics and Chemistry

Brian Kahn - United Nations International School

On-line materials are now being produced by schools and colleges to support and even replace instruction in the classroom. What are effective on-line materials? How can students navigate to the material they need? What is the role of hand-held devices like the iPod and iPhone in this development? At UNIS we are creating on-line materials as part of the Science Learning Project (SciLproJ), which will eventually parallel the teaching of all three sciences for the International Baccalaureate (IB). A key component of this project was to design and build software to allow students to reach the on-line material they need with a few clicks of the mouse (or taps on the screen.)

2:20 PM - 2:50 PM Room 714

Using a Classroom Aquarium as a Model for an Ecology Unit

Peter Rice - High School of Economics and Finance

Illustrations and sample work from students demonstrating how a class aquarium can teach ecology content.

10:30 AM - 11:30 AM Room 713

Investigating Gas Exchange

Mark Koker - LAB AIDS Institute

A Hands-On Presentation:

Although 'gas exchange' can have multiple meanings at the middle level, in this activity, students test a sample of their exhaled breath for carbon dioxide and learn about the structure and function of the lungs.

KEYNOTE ROOM 713

11:30 AM - 12:30 PM Room 713

**Poster Presentations from SIT
Winners and NYU Student
Projects**

Nikita Rishi - Suffern High School
Patrick McLoughlin - Nanuet Senior High School
Raeanne Bryceland - SIT Winner

Lunch

12:30 PM - 1:30 PM Room 714

**What Evidence-based Practice
Really Means: Finding
Connections Between Research
and Practice**

Catherine Milne - NYU Steinhardt

In this presentation I examine how research from our project, *Molecules and Minds*, has implications for both the design of resources and for teaching and learning. Over the past six years a multi-disciplinary research team has been working on the design, development, implementation, and evaluation of multimedia simulations for chemistry education.

What we are learning has implications for other discipline areas beyond science.

KEYNOTE ROOM 714